

Release notes for ENDF/B Development dec-003_Li_008
evaluation

ENDF
B-VII.dev

October 13, 2016

- **checkr** Warnings:

1. A previous error halted parsing of the current section
MAT= 21, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT= 21, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 47 TO 49
```

- **checkr** Errors:

1. A variable is outside the allowed ENDF range
MAT= 21, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT= 21, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 47
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 21, MF= 8, MT=457 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 21, MF= 8, MT=457
SECTION 8/457 NOT IN DIRECTORY RECORD NUMBER 51
```

- **fizcon** Warnings:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
MAT= 21, MF= 1, MT=451 (1): Ran out of MATs

```
ERROR(S) FOUND IN MAT= 21, MF= 1, MT=451
ZA SHOULD BE SET TO 1.21000E+02
```

- **fizcon** Errors:

1. A discrete gamma energy is not energetically possible for the given Q value
MAT= 21, MF= 8, MT=457 (1): Eg too big

```
ERROR(S) FOUND IN MAT= 21, MF= 8, MT=457
E(DISCRETE) > Q E= 1.56600E+06 Q= 0.00000E+00
```

2. Energies released in decay not adding up!
MAT= 21, MF= 8, MT=457 (2): Bad energy sum

```
ERROR(S) FOUND IN MAT= 21, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 3.29831E+04 SUM= 0.00000E+00 SEQUENCE NUMBER 2
```

3. Energies released in decay not adding up!
MAT= 21, MF= 8, MT=457 (3): Bad energy sum

```
ERROR(S) FOUND IN MAT= 21, MF= 8, MT=457
BETA MULTIPLICITY SUMUP FAILURE
WHOLE= 3.00000E+00 SUM= 1.00000E+00
```

4. Energies released in decay not adding up!
MAT= 21, MF= 8, MT=457 (4): Bad energy sum

```
ERROR(S) FOUND IN MAT= 21, MF= 8, MT=457
ALPHA MULTIPLICITY SUMUP FAILURE
WHOLE= 0.00000E+00 SUM= 1.00000E+00
```